

Longitudinal Analysis of Public Response to Wildland Fire and Fuel Management:

A Study to Evaluate Change and Predict Citizen Behaviors in Agency Decision Processes

FREQUENCY REPORT July 2009

A Joint Fire Science Project

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This report displays data from longitudinal research in fire-prone communities in seven states—replicating previous studies in 2002 to measure change in public responses to wildland fuel programs and the federal agencies that implement them. Initially, a JFSP study was conducted by Bruce Shindler, Mark Brunson (Utah State University), and Eric Toman in selected counties in Arizona, Colorado, Oregon, and Utah. This was followed by a similar National Fire Plan study for the Northern Research Station by Shindler, Toman, and Sarah McCaffrey in communities adjacent to National Forests in Michigan, Minnesota, and Wisconsin. In 2008 a longitudinal methodology was used by sending surveys to the original 2002 respondents at each site. This form of research is rare, but can yield important insights about influences on and changes in public opinion over time.

In 2002, 1159 individuals participated in the studies. After accounting for respondents who had moved or are deceased, a combined total of 1000 individuals were contacted again in 2008. Of these, 546 completed the survey for a 55% response rate. Paired t-tests were used to measure changes at the individual level. Scores were also grouped and compared at the state level to gain a sense of change within communities and a total score for all seven sites helped identify changes overall. This frequency report provides 1) comparative data from the 2002 and 2008 studies and notes where significant differences occur in paired responses and 2) findings from new questions asked only in the 2008 study. These were added in response to specific issues raised during (2008) interviews with agency personnel at each site to identify fire related activities that had occurred during the six year interval. This qualitative data also will be used in later phases of the study to help analyze findings.

Analysis of research findings is still in progress. Do not cite without permission of the principal investigators.

Frequency Report—July 2009

Research Sites

Arizona: Yavapai County

Management unit: Prescott National Forest

Colorado: Boulder and Larimer Counties

Management units: Rocky Mountain National Park, Arapahoe-Roosevelt National Forest

Oregon: Deschutes and Jefferson Counties

Management units: Deschutes National Forest, BLM Prineville District

Utah: Wasatch Front—Salt Lake City and Tooele County

Management units: BLM West Desert District, Uinta-Wasatch-Cache National Forest

Michigan: All communities adjacent to national forests

Management units: Huron Manistee NF, Ottawa NF, Hiawatha NF

Minnesota: All communities adjacent to national forests

Management units: Chippewa NF, Superior NF

Wisconsin: All communities adjacent to national forests

Management unit: Chequamegon-Nicolet NF

Samples and response rates

	2002 original pool	2008 adjusted pool*	2008 completed surveys	2008 Response rate
Total	1159	1000	546	55%
AZ	151	111	60	54%
CO	149	121	71	59%
OR	161	122	71	58%
UT	147	134	68	51%
MI	168	151	81	54%
MN	191	179	99	55%
WI	192	181	96	53%

* accounting for initial respondents who had moved or are deceased

Section 1: 2002-2008 comparative data for fire-prone communities in seven states

Table values are percents unless otherwise noted. P-values reflect paired t-test scores (with “don’t know” or “no opinion” responses excluded) unless noted.

1. How far is it from your home to a natural area where a wildfire might burn? (avg. miles)

	2002	2008	P-value
Total	3.4	3.5	.822
AZ	3.6	3.7	.966
CO	2.6	3.9	.048
OR	1.2	2.5	.029
UT	4.9	5.7	.365
MI	4.2	4.7	.685
MN	4.3	2.3	.136
WI	2.4	2.4	.955

2. How would you rate the likelihood that a wildfire could occur in the forests or rangelands near your home in the next five years?

	Very likely		Somewhat likely		Somewhat unlikely		Very unlikely		Don’t know		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	31	25	36	38	19	22	9	11	4	5	.008
AZ	40	35	37	45	17	10	5	10	2	0	.666
CO	41	47	38	33	10	13	9	3	2	4	.404
OR	56	50	35	37	4	6	4	6	0	1	.435
UT	54	37	27	49	9	9	6	4	4	1	.242
MI	21	10	35	40	26	31	13	13	5	6	.202
MN	15	5	39	30	28	39	11	16	7	10	.011
WI	9	10	42	36	28	33	13	17	8	5	.219

The following questions ask about specific practices that resource managers can use to reduce flammable fuels and the risk of wildfire in public forests and rangelands. For each of the following, choose the answer that best matches your opinion. The terms used are:

- **Prescribed fire:** also called controlled burning, this practice can involve managers 1) letting fire from natural causes burn under close and careful watch, or 2) setting fires in ways that can be controlled to produce desired conditions and protect against undesired results.
- **Mechanical vegetation removal:** managers use chainsaws, mowers, or other specialized machines to reduce the number of shrubs and small trees where they are so numerous they increase the risk and size of wildfires.
- **Thinning:** In some high risk areas with numerous trees, the trees are too big for mowing machines but can be thinned out using chain saws or other harvesting equipment.

3. In my opinion, using *prescribed fires* on public forests and rangelands is:

	A legitimate tool that resource managers should be able to use whenever they see fit.		Something that should be done infrequently, only in carefully selected areas.		A practice that should not be considered because it creates too many negative impacts.		An unnecessary practice.		I know too little to make a judgment about this topic.		P-value (X ² test)
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	45	44	45	41	3	5	2	2	5	9	<.001
AZ	50	61	47	25	0	7	2	0	2	7	<.001
CO	52	34	42	56	3	3	1	1	1	6	.194
OR	55	60	37	30	7	7	1	0	0	3	<.001
UT	40	41	52	50	3	3	0	0	6	6	.001
MI	35	31	38	42	9	6	1	1	17	19	.004
MN	53	45	44	45	0	3	1	3	2	4	<.001
WI	34	38	53	35	1	7	5	4	7	15	<.001

4. In my opinion, *mechanical vegetation removal* is:

	A legitimate tool that resource managers should be able to use whenever they see fit.		Something that should be done infrequently, only in carefully selected areas.		A practice that should not be considered because it creates too many negative impacts.		An unnecessary practice.		I know too little to make a judgment about this topic.		P-value (X ² test)
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	59	62	26	24	3	2	3	2	9	10	<.001
AZ	76	75	16	10	3	3	2	0	3	12	.249
CO	63	70	24	20	3	4	3	0	7	6	.169
OR	67	68	21	22	6	1	1	1	4	7	.002
UT	56	57	34	31	0	2	0	2	10	9	<.001
MI	47	50	31	32	4	3	4	4	15	12	.012
MN	60	67	28	21	1	1	3	3	8	8	.071
WI	50	52	26	27	4	2	5	1	15	17	.001

5. In my opinion, *thinning* is:

	A legitimate tool that resource managers should be able to use whenever they see fit.		Something that should be done infrequently, only in carefully selected areas.		A practice that should not be considered because it creates too many negative impacts.		An unnecessary practice.		I know too little to make a judgment about this topic.		P-value (X ² test)
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	67	68	23	23	1	1	3	1	1	7	<.001
AZ	-	75	-	17	-	3	-	0	-	5	-
CO	-	76	-	20	-	0	-	0	-	4	-
OR	78	80	18	16	5	0	1	1	1	3	.032
UT	-	62	-	26	-	1	-	0	-	10	-
MI	59	55	25	27	3	5	5	3	11	10	.003
MN	74	71	19	24	1	0	3	1	3	4	.171
WI	57	60	29	26	3	0	1	3	10	11	.003

6. The use of *prescribed fire* may create concerns for some people. Please indicate how concerned you are about the following possible effects in your area.

a. Damage to private property

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
Total	20	10	27	22	40	44	13	24	<.001
AZ	7	7	30	12	47	50	17	31	.033
CO	20	14	38	41	35	34	7	11	.344
OR	23	6	21	20	41	46	16	29	<.001
UT	21	8	28	25	38	52	13	15	.038
MI	30	21	24	14	31	44	16	22	.030
MN	16	6	27	22	42	48	14	24	.001
WI	19	11	25	19	47	39	10	31	<.001

b. Decreased recreation opportunities

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
	11	5	24	14	33	32	33	49	<.001
Total									
AZ	9	5	14	13	33	32	44	50	.458
CO	7	4	20	19	35	33	38	44	.381
OR	9	6	24	14	36	30	31	50	.001
UT	13	5	28	21	32	43	27	31	.046
MI	19	13	31	28	26	29	24	30	.171
MN	8	2	20	16	32	34	39	48	.016
WI	10	3	26	23	36	24	29	49	.010

c. Loss of wildlife habitat

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
	19	12	24	27	28	28	28	32	.024
Total									
AZ	14	12	17	27	33	30	33	32	.409
CO	13	9	24	35	33	31	27	25	.645
OR	19	11	23	16	26	27	31	46	.001
UT	22	9	25	30	28	36	18	25	.175
MI	27	19	26	26	25	33	22	22	.246
MN	15	14	24	26	27	21	33	38	.671
WI	20	13	26	25	25	34	29	28	.163

d. Risk of fire going out of control

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
	31	27	24	33	33	32	13	9	.266
Total									
AZ	14	31	17	32	45	32	24	5	<.001
CO	20	41	21	35	46	18	13	6	<.001
OR	22	21	13	31	36	40	29	7	.006
UT	24	28	21	37	41	28	16	7	.047
MI	54	29	17	24	21	35	7	11	<.001
MN	35	18	31	36	27	33	6	12	.001
WI	35	25	38	33	22	33	5	10	.006

e. Economic loss of useable timber

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
Total	13	12	22	26	27	31	37	30	.027
AZ	7	12	12	17	29	28	52	43	.188
CO	3	4	19	25	19	27	60	44	.038
OR	16	15	27	21	24	31	34	34	.596
UT	9	12	24	29	27	35	40	26	.099
MI	18	19	26	28	22	32	35	22	.228
MN	21	11	25	35	30	32	25	22	.593
WI	13	14	22	26	38	33	28	27	.392

f. Reduced scenic quality

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
Total	14	12	26	23	36	39	24	26	.168
AZ	9	14	21	22	43	39	28	25	.273
CO	10	10	23	25	43	42	24	23	.909
OR	13	12	27	15	29	37	31	37	.100
UT	18	12	25	33	38	39	19	16	.911
MI	22	20	32	25	30	34	17	22	.266
MN	8	7	26	22	38	42	27	28	.450
WI	16	13	28	22	33	37	23	28	.210

g. Increased levels of smoke

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
Total	18	12	26	28	32	37	24	22	.149
AZ	14	17	36	24	24	44	26	15	.604
CO	11	6	27	39	37	30	24	25	.904
OR	21	13	23	32	29	44	27	12	.908
UT	24	13	22	40	38	34	16	12	.745
MI	23	19	28	29	28	28	23	24	.615
MN	13	12	21	22	34	37	31	28	.850
WI	18	9	26	14	36	46	20	31	<.001

h. Deteriorated public water supply

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
	18	9	19	16	31	32	32	42	<.001
Total									
AZ	10	7	26	14	24	36	40	43	.122
CO	14	7	23	24	37	37	26	32	.184
OR	21	13	23	15	29	23	27	49	<.001
UT	25	8	18	24	37	45	21	24	.038
MI	23	14	19	22	19	31	39	33	.713
MN	15	5	16	10	33	34	36	51	<.001
WI	17	11	13	9	34	23	36	57	.004

i. Increased soil erosion

	Great concern		Moderate concern		Slight concern		Not a concern		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	
	22	13	27	26	34	37	18	24	<.001
Total									
AZ	12	17	29	24	40	34	19	25	.905
CO	17	11	34	35	41	41	7	13	.212
OR	23	13	24	19	37	39	17	29	.006
UT	31	13	29	39	24	40	16	8	.301
MI	26	14	30	29	30	29	14	28	.006
MN	17	9	19	24	37	37	26	29	.136
WI	23	15	27	16	30	37	20	32	.001

The Forest Service, BLM, and National Parks System interact in various ways with local communities. Please evaluate the following statements about your experiences with the agency in your area.

7. How much confidence do you have in the forest agency in your area to use the following practices as part of a responsible and effective fuels management program?

a. Confidence in forest agency to use prescribed fire

	Full		Moderate		Limited		None		No Opinion		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	18	22	43	43	27	21	7	7	6	7	.126
AZ	25	34	52	41	18	20	5	5	0	0	.695
CO	13	10	49	51	32	23	4	10	1	6	.504
OR	13	29	59	36	19	23	6	10	3	1	.678
UT	13	25	43	51	37	13	3	4	3	6	.008
MI	14	15	36	37	20	23	13	5	18	19	.314
MN	23	21	43	49	24	22	3	5	6	2	.833
WI	22	21	27	35	33	22	12	11	6	10	.595

b. Confidence in forest agency to use mechanical vegetation removal

	Full		Moderate		Limited		None		No Opinion		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	25	26	41	38	21	20	5	8	8	8	.317
AZ	35	33	40	38	15	21	10	3	0	5	.828
CO	21	25	44	38	27	16	1	16	7	6	.458
OR	28	35	46	36	21	21	3	8	3	0	.557
UT	18	31	49	40	25	19	0	3	8	7	.419
MI	23	21	33	37	18	19	6	10	21	14	.597
MN	27	25	47	41	16	21	3	7	7	7	.219
WI	23	20	32	35	26	24	10	9	8	12	.827

c. Confidence in forest agency to use thinning

	Full		Moderate		Limited		None		No Opinion		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
	31	29	39	36	16	20	6	7	9	7	
Total	31	29	39	36	16	20	6	7	9	7	.075
AZ	-	32	-	41	-	19	-	3	-	5	-
CO	-	24	-	39	-	20	-	13	-	4	-
OR	35	44	46	27	12	23	6	6	6	0	.758
UT	-	33	-	36	-	16	-	4	-	10	-
MI	31	24	35	38	15	19	5	6	15	14	.194
MN	33	27	47	37	11	24	3	6	6	5	.032
WI	27	25	31	36	24	20	8	8	6	11	.645

8. Which of the following items reflect your opinion about *smoke from prescribed fire*?

Please check **all** the answers that apply to you.

	Smoke from prescribed fire has never been an issue for me		Smoke from prescribed fire is a necessary inconvenience		Smoke from prescribed fire is a concern, but I think it is managed acceptably		I worry about the effects of smoke on public health		I worry about the effects of smoke on travel safety		Because of the smoke, prescribed fire isn't worth it.	
	% Agree		% Agree		% Agree		% Agree		% Agree		% Agree	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	34	46*	39	59*	53	45	34	22*	27	13*	6	5
Total^a	34	46*	39	59*	53	45	34	22*	27	13*	6	5
AZ	35	29	55	75*	48	62	28	25	20	5*	3	5
CO	39	51	56	63	48	47	27	20	20	11	6	0
OR	23	36*	52	64	56	47	39	20*	37	16*	6	7
UT	29	32	44	52	50	41	40	29	29	16	10	3
MI^b	38	52	32	46	54	35	-	30	-	25	-	10
MN^b	32	53	27	68	62	47	-	17	-	14	-	3
WI^b	37	60	24	51	53	39	-	17	-	3	-	3

* p-value <0.05

^a Western states only

^b Different scales used in 2002 and 2008, no comparisons calculated

9. Agency managers use various programs to provide information about management activities. How helpful and trustworthy have the following sources of information been to you? Check the “no experience” box if you’ve had no experience with an information source.
Note: Only participants with experience responded to the helpful and trustworthy questions.

a. Informational brochures

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	36	45	7	8	46	51	48	41	89	92	11	8
AZ	24	50	5	14	38	36	58	50	95	90	5	10
CO	34	38	10	2	27	59	63	39	95	97	5	3
OR	19	39	6	5	40	40	54	55	94	97	6	3
UT	42	52	3	7	58	63	39	30	100	96	0	4
MI	50	53	8	13	47	56	44	31	86	80	14	20
MN	31	43	8	10	47	52	45	38	80	91	20	9
WI	44	41	6	8	61	49	33	43	75	91	25	9

b. TV public service messages

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	12	31	8	12	49	52	43	36	76	90	24	10
AZ	13	31	4	5	41	42	54	53	91	97	9	3
CO	27	53	15	19	49	53	36	28	81	80	19	20
OR	16	29	6	7	39	49	55	44	89	95	11	5
UT	11	23	5	6	52	60	43	34	89	89	11	11
MI	13	28	15	13	44	53	41	33	64	88	36	12
MN	3	23	8	18	51	46	41	37	71	87	29	13
WI	7	31	5	11	59	63	36	26	61	92	39	8

c. Visitor centers and interpretive signs

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	24	34	6	7	40	40	53	53	92	93	8	7
AZ	7	46	4	7	27	50	69	43	96	92	4	8
CO	11	40	9	3	35	51	56	46	93	94	7	6
OR	14	29	4	7	23	45	74	48	96	93	4	8
UT	17	29	6	9	32	37	63	53	92	92	4	8
MI	36	32	13	9	51	41	36	50	86	90	14	10
MN	32	33	6	8	45	30	48	62	94	92	6	8
WI	35	31	4	7	68	37	28	56	87	96	13	4

d. Internet web pages

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	64	71	27	25	41	38	31	37	63	86	37	14
AZ	77	68	17	22	33	22	50	56	67	93	33	7
CO	66	69	13	29	39	33	48	38	86	100	14	0
OR	73	69	13	30	53	45	33	25	71	88	29	12
UT	67	70	48	21	38	37	14	42	61	83	39	17
MI	62	76	35	38	38	38	27	25	42	82	58	18
MN	54	74	29	8	41	50	29	42	59	81	41	19
WI	56	73	27	32	43	36	30	32	64	79	36	21

e. Guided field trips to forest sites

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	54	71	9	34	30	32	61	34	93	83	7	17
AZ	64	79	16	50	16	17	68	33	88	78	12	22
CO	53	82	7	25	30	42	63	33	93	100	7	0
OR	58	68	4	35	22	30	74	35	96	93	4	7
UT	55	70	11	21	32	32	57	47	100	75	0	25
MI	57	67	16	45	28	32	56	23	90	76	10	24
MN	45	68	8	25	31	46	62	29	92	83	8	17
WI	54	68	5	38	43	21	53	42	92	83	8	17

f. Government public meetings

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	50	61	20	27	45	47	36	26	64	77	36	23
AZ	54	63	17	29	33	24	50	48	76	88	24	13
CO	62	62	21	24	42	60	38	16	57	88	44	13
OR	70	60	12	42	65	33	24	25	67	85	33	15
UT	57	68	37	20	48	70	15	10	40	71	60	29
MI	49	68	40	33	29	42	32	25	62	75	38	25
MN	38	61	9	28	48	47	43	25	76	63	24	37
WI	33	51	13	18	50	53	37	30	63	76	37	24

g. Conversations with agency staff

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	46	55	11	13	32	41	57	46	79	88	21	12
AZ	49	57	22	16	26	48	52	36	67	84	33	16
CO	44	54	8	6	31	45	61	48	88	96	12	4
OR	42	59	12	12	27	35	62	54	76	90	24	10
UT	52	56	7	11	58	30	36	59	74	96	26	4
MI	56	59	18	21	33	52	49	28	75	88	25	13
MN	36	52	5	14	25	41	69	45	88	82	12	18
WI	44	50	10	10	33	38	57	52	76	86	24	14

h. Newsletters

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	48	57	10	18	53	53	37	30	80	85	20	15
AZ	55	57	4	13	44	52	52	35	91	89	9	11
CO	45	59	11	4	51	63	38	33	94	95	6	5
OR	57	44	4	14	44	49	52	37	83	97	17	3
UT	49	57	6	15	55	62	39	23	90	68	10	32
MI	46	61	15	31	61	46	24	23	76	79	24	21
MN	40	63	13	18	52	65	36	18	73	79	27	21
WI	48	57	12	26	60	35	29	38	67	85	33	15

i. Educational workshops

	No experience		How helpful is the information to you?						Trustworthy?			
			Not		Slightly		Very		Yes		No	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total		72		29		31		40	-	86	-	14
AZ	-	69	-	28	-	28	-	44	-	93	-	7
CO	-	80	-	17	-	33	-	50	-	100	-	0
OR	61	71	5	39	27	22	68	39	92	85	8.3	15
UT	-	77	-	14	-	29	-	57	-	91	-	9
MI	-	76	-	59	-	24	-	18	-	70	-	30
MN	-	67	-	26	-	37	-	37	-	86	-	14
WI	-	54	-	20	-	37	-	43	-	82	-	18

j. Sites demonstrating management practices (asked only in 2008 survey)

	No experience	How helpful is the information to you?			Trustworthy?	
	-	Not	Slightly	Very	Yes	No
Total	66	20	37	39	70	9
AZ	72	31	19	50	75	6
CO	75	6	53	41	65	0
OR	58	21	34	34	72	7
UT	66	19	33	48	71	19
MI	68	25	29	42	63	8
MN	61	16	38	41	76	11
WI	64	23	45	29	68	10

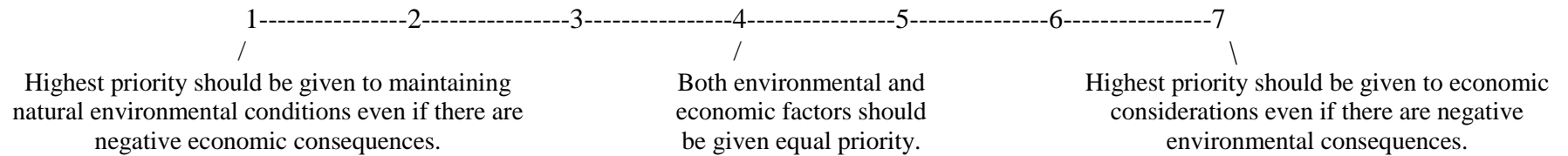
k. Agency managers who meet with homeowner groups (asked only in 2008 survey)

	No experience	How helpful is the information to you?			Trustworthy?	
	-	Not	Slightly	Very	Yes	No
Total	78	32	30	33	54	14
AZ	72	25	31	44	75	0
CO	78	20	40	40	60	7
OR	79	40	20	27	47	13
UT	83	27	36	36	64	18
MI	81	50	29	14	50	7
MN	77	27	23	45	45	27
WI	76	33	33	24	43	19

10. In your opinion, how well has the forest agency in your area *incorporated public concerns* into its management strategies?

	Excellent, public concerns are always considered		Good, public concerns are usually considered		Fair, public concerns are sometimes considered		Poor, public concerns are rarely considered		I have no basis for an opinion on this topic		P-value (X ² test)
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
Total	5	8	32	39	38	25	14	8	12	20	<.001
AZ	7	19	37	45	40	21	16	5	-	10	-
CO	6	4	42	46	48	22	5	7	-	20	-
OR	6	11	26	35	31	27	20	3	17	24	<.001
UT	2	5	31	38	54	28	14	9	-	20	-
MI	4	3	22	39	26	24	17	12	31	22	.511
MN	5	12	32	34	35	23	8	10	19	21	.381
WI	6	6	33	37	34	29	17	7	9	22	.096

11. Public land management often involves difficult trade-offs between natural environmental conditions (wildlife, old growth forests) and economic considerations (employment, tax revenues). Please locate yourself on the following scale concerning these issues.



Total	1		2		3		4		5		6		7		Mean Score		P-value
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008	
	11	7	12	8	15	10	47	53	10	12	4	8	1	1	3.5	3.7	.001
AZ	10	7	5	5	13	9	58	56	8	9	3	11	2	4	3.7	4.0	.069
CO	25	18	28	19	13	18	25	34	7	4	1	7	1	0	2.7	3.1	.010
OR	6	4	10	13	14	4	52	52	16	17	3	8	0	1	3.7	4.0	.030
UT	3	6	6	5	19	11	56	63	8	6	7	8	0	0	3.8	3.8	.925
MI	-	8	-	8	-	6	-	53	-	13	-	11	-	1	-	3.9	-
MN	-	2	-	3	-	11	-	63	-	13	-	5	-	2	-	4.1	-
WI	-	8	-	6	-	14	-	49	-	16	-	5	-	1	-	3.8	-

12. How would you rate the overall condition of public forests in your area?

	Very healthy		Somewhat healthy		Somewhat unhealthy		Very unhealthy		Don't know	
	2002	2008	2002	2008	2002	2008	2002	2008	2002	2008
Total	3	15	14	47	49	24	29	5	5	9
AZ	-	9	-	47	-	33	-	7	-	4
CO	-	0	-	24	-	59	-	10	-	7
OR	-	59	-	44	-	35	-	7	-	7
UT	-	15	-	49	-	21	-	0	-	16
MI	4	20	11	53	50	7	25	6	8	14
MN	3	24	18	52	50	12	24	4	6	8
WI	2	25	12	54	48	13	37	1	2	7

Section 2: The following questions were asked only in the 2008 survey

1. How would you rate the overall condition of public forests in your area?

	Very healthy	Somewhat healthy	Somewhat unhealthy	Very unhealthy	Don't know
Total	15	47	24	5	9
AZ	9	47	33	7	4
CO	0	24	59	10	7
OR	59	44	35	7	7
UT	15	49	21	0	16
MI	20	53	7	6	14
MN	24	52	12	4	8
WI	25	54	13	1	7

2. Have there been any wildfires in your area in the last six years?

	Yes	No
Total	56	44
AZ	76	24
CO	66	34
OR	78	22
UT	93	7
MI	40	60
MN	38	62
WI	28	72

If yes, please answer the following....

a. About how far away from your home was the wildfire?

	less than 1 mile	1-5 miles	more than 5 miles
Total	4	48	48
AZ	0	53	47
CO	0	50	50
OR	8	51	42
UT	2	47	52
MI	9	41	50
MN	5	49	46
WI	12	35	54

b. Did you experience discomfort from smoke?

	Yes	No
Total	45	55
AZ	73	27
CO	43	57
OR	66	34
UT	58	42
MI	16	84
MN	24	76
WI	0	100

c. Were you evacuated?

	Yes	No
Total	4	96
AZ	9	91
CO	4	96
OR	7	93
UT	0	100
MI	0	100
MN	5	95
WI	0	100

d. Did you suffer damage to your personal property?

	Yes	No
Total	0	100
AZ	0	100
CO	0	100
OR	2	98
UT	0	100
MI	0	100
MN	0	100
WI	0	100

3. How likely do you think it is that *prescribed burning* will generate the following outcomes?

a. Reduce scenic quality

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	9	16	27	30	13	5
AZ	10	10	24	37	17	2
CO	10	16	36	26	9	3
OR	9	12	27	30	22	0
UT	6	21	27	30	9	6
MI	13	14	28	21	14	10
MN	6	22	22	39	9	1
WI	9	16	26	26	13	10

b. Create more smoke in the short-term, but less smoke over time

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	15	33	24	11	7	10
AZ	15	45	15	12	8	5
CO	20	30	29	6	6	9
OR	22	41	15	13	3	6
UT	9	29	37	8	5	12
MI	10	16	26	21	12	16
MN	16	42	21	11	4	6
WI	15	29	24	9	9	15

c. Save money by reducing the cost of fighting a wildfire

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	24	34	20	9	7	6
AZ	33	37	12	10	7	2
CO	25	39	25	4	4	3
OR	42	33	12	1	7	4
UT	18	43	25	6	1	6
MI	10	28	21	13	13	15
MN	32	35	20	8	4	1
WI	14	29	23	14	9	10

d. Restore forests to a more natural condition

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	23	36	18	8	9	6
AZ	25	42	17	5	7	5
CO	22	50	12	4	6	6
OR	36	35	17	3	9	0
UT	16	36	21	12	7	7
MI	14	28	14	15	17	12
MN	29	36	23	5	4	2
WI	16	29	20	11	15	9

e. Improve conditions for wildlife

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	23	32	20	9	9	8
AZ	25	30	17	8	7	13
CO	20	32	25	10	7	6
OR	31	32	19	4	7	6
UT	17	38	21	11	5	9
MI	17	27	19	10	17	10
MN	32	36	17	5	6	4
WI	16	27	24	12	12	8

f. Effectively reduce fire risk

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	27	34	21	7	6	5
AZ	38	35	12	5	8	2
CO	26	39	20	6	4	4
OR	43	30	20	0	3	3
UT	18	38	25	11	3	5
MI	18	27	22	12	12	10
MN	35	37	19	4	3	1
WI	15	32	26	13	5	8

4. How likely do you think it is that *thinning* will generate the following outcomes?

a. Reduce scenic quality

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	4	9	22	35	27	5
AZ	7	7	22	33	25	7
CO	1	10	23	36	25	4
OR	3	4	14	38	39	1
UT	3	8	26	41	17	6
MI	9	8	14	31	31	6
MN	1	9	24	36	28	1
WI	2	12	26	29	22	9

b. Extract usable wood products

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	28	40	15	9	3	5
AZ	20	37	20	14	2	7
CO	26	39	20	7	4	4
OR	32	38	19	7	3	1
UT	23	44	14	14	2	5
MI	23	40	8	12	5	12
MN	32	42	16	7	2	1
WI	33	37	13	4	6	7

c. Save money by reducing the cost of fighting a wildfire

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	27	33	21	8	5	6
AZ	42	30	10	8	3	7
CO	21	44	24	6	3	1
OR	38	43	9	3	1	6
UT	28	30	27	4	4	6
MI	16	29	17	16	13	10
MN	33	32	26	6	2	1
WI	14	29	27	10	10	10

d. Restore forests to a more natural condition

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	21	30	24	10	8	7
AZ	31	32	19	7	3	8
CO	21	43	20	7	3	6
OR	35	35	19	6	1	4
UT	12	33	22	13	9	10
MI	13	17	30	16	17	8
MN	26	28	25	10	8	2
WI	10	28	29	8	14	11

e. Improve conditions for wildlife

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	21	30	24	10	7	8
AZ	27	27	20	7	3	17
CO	17	37	26	9	6	6
OR	28	38	18	3	7	6
UT	15	27	38	12	2	6
MI	15	17	26	12	21	10
MN	30	33	18	11	3	4
WI	13	33	24	15	8	8

f. Effectively reduce fire risk

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	27	33	21	8	6	6
AZ	43	28	18	0	3	7
CO	25	41	23	3	6	3
OR	35	45	13	3	1	3
UT	24	30	28	9	3	6
MI	17	26	19	17	12	9
MN	34	33	20	8	3	2
WI	16	27	23	13	10	10

g. Result in more harvesting than necessary

	Extremely likely	Very likely	Somewhat likely	Slightly likely	Not at all likely	Don't know
Total	7	9	18	31	26	8
AZ	10	8	23	27	22	10
CO	4	7	20	33	26	10
OR	7	7	7	33	39	6
UT	0	11	23	44	14	9
MI	12	8	18	30	18	13
MN	4	12	14	35	34	2
WI	9	8	24	20	29	10

**5. How much you trust the forest agency in your area to conduct specific management activities.
(Based on a 7-point scale from *strongly disagree* to *strongly agree*)**

a. I trust the agency to respond to and fight forest fires

	Disagree			Neutral	Agree			Mean Score
Scale #	1	2	3	4	5	6	7	
Total	1	2	2	11	15	31	37	5.7
AZ	2	2	3	3	7	23	60	6.2
CO	0	4	0	11	20	33	31	5.7
OR	0	0	3	11	21	24	40	5.9
UT	0	0	3	6	21	42	27	5.8
MI	5	2	0	21	12	32	27	5.4
MN	1	3	2	6	12	31	44	6.0
WI	6	4	13	23	23	19	12	5.4

b. I trust the agency to use thinning practices effectively

	Disagree			Neutral	Agree			Mean Score
Scale #	1	2	3	4	5	6	7	
Total	4	4	6	21	24	22	18	5.0
AZ	3	2	5	23	10	33	23	5.3
CO	4	6	7	15	31	14	23	5.0
OR	3	3	6	23	23	21	21	5.1
UT	0	2	3	24	30	33	6	5.0
MI	9	6	5	25	23	19	14	4.6
MN	4	6	7	18	22	20	22	5.0
WI	2	5	10	22	24	20	16	4.9

c. I trust the agency to effectively plan and implement prescribed burns

Scale #	Disagree			Neutral	Agree			Mean Score
	1	2	3	4	5	6	7	
Total	6	4	11	20	25	20	12	4.6
AZ	10	3	5	14	25	25	17	4.8
CO	7	11	10	18	30	18	6	4.3
OR	7	1	11	16	24	20	20	4.9
UT	1	3	9	27	27	30	1	4.7
MI	9	5	9	28	26	15	9	4.4
MN	5	3	14	17	24	18	18	4.8
WI	6	4	13	23	23	19	12	4.6

6. Please tell us about your trust in information from the forest agency in your area about their management programs for reducing the risk of wildfire. (Based on a 7-point scale from strongly disagree to strongly agree)

a. I trust the agency to provide enough information so that I can decide on actions I should take about fire and fire safety

Scale #	Disagree			Neutral	Agree			Mean Score
	1	2	3	4	5	6	7	
Total	3	3	5	13	18	37	20	4.9
AZ	4	7	3	21	24	27	13	5.3
CO	6	3	3	18	24	25	21	4.9
OR	0	8	15	23	26	22	6	5.1
UT	5	4	4	31	26	22	8	4.6
MI	1	7	6	23	19	25	20	4.7
MN	4	5	8	26	25	19	13	5.0
WI	3	5	6	23	23	25	14	4.7

b. I trust the agency to provide current, timely information about forest fire issues

Scale #	Disagree			Neutral	Agree			Mean Score
	1	2	3	4	5	6	7	
Total	3	5	8	20	22	27	15	4.9
AZ	5	3	5	12	17	37	22	5.3
CO	1	7	6	19	27	30	10	4.9
OR	4	4	3	18	23	27	21	5.2
UT	0	9	12	15	27	29	8	4.8
MI	6	3	9	31	23	17	10	4.5
MN	3	4	9	16	16	31	20	5.1
WI	3	5	9	24	25	20	14	4.8

c. I trust the agency to provide credible information about their fuel reduction activities

Scale #	Disagree			Neutral	Agree			Mean Score
	1	2	3		5	6	7	
Total	3	5	7	20	17	32	17	4.7
AZ	4	3	7	26	24	26	10	5.0
CO	4	4	10	18	23	21	20	4.8
OR	0	12	7	30	24	22	4	4.9
UT	8	3	6	35	23	19	5	4.5
MI	1	8	8	23	18	26	15	4.4
MN	5	9	8	29	26	15	8	4.9
WI	4	6	8	26	22	23	11	4.4

7. Please tell us if your trust in the forest agency in your area has *changed* over the last six years because of how it has handled its fire and fuel management activities.

My trust in the agency has:

		Increased	Not changed	Decreased
Total		14	74	11
	AZ	32	52	17
	CO	11	79	10
	OR	24	59	17
	UT	9	84	7
	MI	10	78	12
	MN	8	80	10
	WI	10	82	9

If your trust in the forest agency in your area has increased or decreased, what is the primary reason? (open-ended question)

Increased trust (most common responses recorded here. States where this response was particularly high are noted).

- Improved agency interactions and community outreach (AZ, CO, OR, WI)
- Increases and improvements in fuel reduction practices (AZ, OR)
- Effectiveness of agency in stopping recent local wildfires

Decreased trust

- Prescribed burns got out of control
- Inability to reduce number of wildfires and to put them out quickly (AZ, UT)
- Failure to harvest damaged trees after fire or blow-down event (MI, WI)

8. How much have the following influenced your opinion of the forest agency practices in your area to reduce the risk of wildfire?

a. Media (TV, newspapers)

		Not at all	Slightly	Moderately	A great deal
Total		32	28	29	11
AZ		22	28	33	17
CO		37	28	24	10
OR		35	29	28	9
UT		26	32	32	9
MI		40	21	30	9
MN		28	34	28	10
WI		36	23	28	13

b. My neighbors

		Not at all	Slightly	Moderately	A great deal
Total		58	19	16	7
AZ		55	11	25	9
CO		47	26	20	8
OR		66	12	15	6
UT		69	14	14	3
MI		53	25	14	8
MN		57	19	18	7
WI		61	21	11	7

c. City or county fire department

		Not at all	Slightly	Moderately	A great deal
Total		33	25	28	13
AZ		21	21	36	22
CO		31	31	25	14
OR		29	20	27	24
UT		32	32	27	9
MI		42	26	27	5
MN		38	22	28	12
WI		36	26	28	10

d. Forest agency in your area

		Not at all	Slightly	Moderately	A great deal
Total		18	26	39	17
AZ		12	19	39	30
CO		18	26	43	12
OR		16	17	36	31
UT		17	35	43	5
MI		26	31	28	15
MN		17	24	43	16
WI		17	26	42	15

e. Threat of a wildfire in my area

		Not at all	Slightly	Moderately	A great deal
Total		29	26	27	18
AZ		14	16	46	23
CO		19	25	33	23
OR		18	27	22	33
UT		30	35	25	10
MI		39	22	28	11
MN		34	27	28	11
WI		36	28	24	13

f. An actual wildfire occurring in my area

		Not at all	Slightly	Moderately	A great deal
Total		36	22	23	19
AZ		14	16	46	23
CO		30	33	12	25
OR		23	21	20	36
UT		31	22	31	16
MI		45	15	21	18
MN		45	25	19	10
WI		54	19	16	11

g. Other influences written in by respondents:

- Personal observations
- Personal experience and background
- Informal interactions with agency personnel

9. Have you taken action on your property to protect your home from wildfires?

	Yes	No
Total	44	56
AZ	68	32
CO	58	42
OR	66	34
UT	25	75
MI	24	76
MN	36	64
WI	41	59

The Forest Service, BLM, and National Park Service interact in various ways with local communities. Please evaluate the following statements about your experiences with the agency in your area.

10. Agency interactions with the local community.

a. The agency is open to public input and uses it to shape management decisions.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	5	14	41	6	34
AZ	3	10	40	16	31
CO	3	9	47	1	40
OR	4	11	37	10	38
UT	5	14	40	2	40
MI	5	15	38	1	40
MN	5	16	36	7	35
WI	7	17	50	7	19

b. Agency managers usually create plans without input from local communities.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	5	28	21	8	37
AZ	9	28	23	9	32
CO	4	31	21	6	38
OR	11	31	11	7	39
UT	3	26	23	8	40
MI	0	29	22	7	42
MN	4	24	23	8	40
WI	6	28	26	10	30

c. Agency managers build trust and cooperation with local citizens.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	4	16	41	6	33
AZ	3	12	37	19	29
CO	4	10	49	1	35
OR	1	11	44	6	38
UT	5	15	45	2	34
MI	3	19	37	4	37
MN	4	19	37	7	33
WI	8	23	39	3	26

d. Managers do a good job of providing information about management activities.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	3	18	41	6	31
AZ	3	16	43	17	21
CO	4	13	46	3	34
OR	1	13	46	6	34
UT	5	22	39	3	31
MI	7	19	32	1	41
MN	2	21	36	9	31
WI	2	21	45	6	26

e. I am skeptical of information from the forest agency in my area.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	18	37	17	6	21
AZ	40	26	14	4	16
CO	22	41	15	4	18
OR	23	43	16	3	16
UT	13	47	16	5	20
MI	8	36	18	5	33
MN	15	31	23	8	23
WI	15	37	17	10	21

f. There are adequate opportunities for citizens to participate in the local agency planning process.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	4	19	32	5	40
AZ	7	14	29	14	36
CO	3	9	43	4	41
OR	3	11	42	3	41
UT	6	22	25	2	46
MI	7	19	27	3	45
MN	1	24	24	6	44
WI	6	26	35	3	30

g. Local agency staff are prohibited from doing their jobs because of national restrictions or regulations.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	4	15	19	10	51
AZ	10	12	16	12	50
CO	3	18	16	10	53
OR	4	8	24	18	45
UT	5	14	17	6	58
MI	3	16	18	4	59
MN	4	18	19	8	51
WI	3	15	25	14	43

e. I am skeptical of information from the forest agency in my area.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	18	37	17	6	21
AZ	40	26	14	4	16
CO	22	41	15	4	18
OR	23	43	16	3	16
UT	13	47	16	5	20
MI	8	36	18	5	33
MN	15	31	23	8	23
WI	15	37	17	10	21

f. There are adequate opportunities for citizens to participate in the local agency planning process.

	Strongly Agree	Agree	Disagree	Strongly disagree	Don't know
Total	4	19	32	5	40
AZ	7	14	29	14	36
CO	3	9	43	4	41
OR	3	11	42	3	41
UT	6	22	25	2	46
MI	7	19	27	3	45
MN	1	24	24	6	44
WI	6	26	35	3	30

12. Public opinion and support are important factors in the success of forest policies. We want to know what influences your opinion of management decisions. Rate each of the following factors 1 through 7 on how important they are when making judgments about forest agency actions and decisions in your area.

Not

Moderately

Extremely

Important 1-----2-----3-----4-----5-----6-----7 Important Important

a. When local citizens have been included in the planning process.

	1	2	3	4	5	6	7	Mean
Total	1	2	7	20	23	28	20	5.3
AZ	0	2	10	17	22	26	22	5.3
CO	0	4	10	11	35	28	11	5.1
OR	2	0	6	29	21	20	23	5.2
UT	0	0	6	20	26	28	20	5.4
MI	1	3	7	24	21	20	24	5.2
MN	2	2	4	20	18	30	23	5.3
WI	1	2	6	16	18	40	18	5.4

b. How the decision affects my personal property.

	1	2	3	4	5	6	7	Mean
Total	5	3	5	18	15	24	30	5.3
AZ	10	3	7	21	2	22	34	5.1
CO	1	6	7	18	15	25	27	5.2
OR	4	7	0	16	13	25	35	5.4
UT	3	0	5	22	26	20	25	5.3
MI	5	4	4	16	12	24	34	5.3
MN	6	0	4	12	16	21	40	5.6
WI	7	2	5	21	20	26	19	5.0

c. When I know the objectives of a proposed management action.

	1	2	3	4	5	6	7	Mean
Total	1	2	6	21	26	27	18	5.2
AZ	0	4	4	25	14	29	25	5.4
CO	0	3	4	12	35	29	17	5.4
OR	0	0	5	22	27	31	16	5.3
UT	0	0	5	25	32	26	12	5.2
MI	1	1	6	28	25	19	20	5.1
MN	2	2	6	18	27	24	20	5.2
WI	2	2	9	22	19	31	15	5.1

d. The decision maintains forest access for recreation.

	1	2	3	4	5	6	7	Mean
Total	2	2	7	17	26	26	21	5.2
AZ	0	5	11	11	30	16	28	5.3
CO	3	4	10	21	23	24	14	4.9
OR	1	1	7	18	28	21	24	5.3
UT	0	0	3	18	21	36	21	5.6
MI	1	1	7	20	18	34	19	5.3

MN	4	1	8	10	28	25	24	5.3
WI	0	1	4	22	23	32	17	5.2

e. The decision leads to active management to maintain or restore conditions.

	1	2	3	4	5	6	7	Mean
Total	1	1	5	24	29	27	13	5.1
AZ	0	0	5	29	25	21	20	5.2
CO	1	0	1	21	31	21	24	5.4
OR	0	0	3	27	29	29	12	5.2
UT	0	0	6	27	33	30	4	5.0
MI	1	4	11	23	27	23	10	4.8
MN	0	0	3	15	36	34	11	5.4
WI	1	1	7	31	21	28	10	5.0

f. My trust in the decision-maker.

	1	2	3	4	5	6	7	Mean
Total	2	2	7	23	23	27	16	5.1
AZ	2	3	9	16	26	22	22	5.2
CO	1	0	4	23	32	26	13	5.1
OR	3	0	7	27	19	33	10	5.0
UT	0	0	3	30	24	36	7	5.2
MI	4	1	7	22	22	29	14	5.0
MN	1	3	10	19	19	25	22	5.2
WI	0	4	8	26	22	22	17	5.0

g. Environmental consequences are given top priority.

	1	2	3	4	5	6	7	Mean
Total	2	3	10	24	21	22	18	5.0
AZ	5	0	19	19	28	9	21	4.7
CO	0	9	4	14	21	24	27	5.3
OR	1	6	19	21	24	16	13	4.6
UT	1	1	9	33	22	19	13	4.9
MI	3	3	8	26	18	22	22	5.0
MN	0	1	8	22	23	32	13	5.2
WI	1	2	8	34	16	22	17	5.0

h. When scientists play a role by reviewing management alternatives.

	1	2	3	4	5	6	7	Mean
Total	3	4	7	24	26	24	13	4.9
AZ	0	4	11	32	18	19	18	4.9
CO	3	3	0	24	30	27	13	5.1
OR	2	2	11	24	23	29	11	4.9
UT	0	2	5	22	37	25	11	5.1
MI	8	8	7	26	18	23	10	4.5
MN	3	3	9	22	20	26	16	5.0
WI	3	4	9	20	34	20	10	4.8

i. Visual impacts of the activity.

	1	2	3	4	5	6	7	Mean
Total	1	5	13	24	24	20	12	4.8
AZ	2	7	16	24	26	14	12	4.6
CO	0	7	14	20	31	19	9	4.7
OR	0	6	10	36	23	13	12	4.6
UT	0	3	6	20	34	26	11	5.1
MI	3	8	9	20	23	20	16	4.8
MN	0	3	16	26	14	23	17	4.9
WI	2	4	15	21	24	24	9	4.7

j. When actions help support the local economy.

	1	2	3	4	5	6	7	Mean
Total	2	6	10	33	23	15	10	4.5
AZ	2	5	17	34	12	17	12	4.5
CO	3	14	14	42	19	3	4	3.9
OR	1	3	6	34	21	24	10	4.8
UT	2	3	3	37	31	17	8	4.7
MI	3	7	11	33	27	12	7	4.4
MN	2	5	8	19	31	23	11	4.9
WI	3	6	11	39	19	9	13	4.4

k. Economic consequences are given top priority.

	1	2	3	4	5	6	7	Mean
Total	3	6	14	36	19	15	6	4.3
AZ	5	10	7	33	24	7	14	4.4
CO	9	10	22	35	16	9	0	3.7
OR	1	4	13	28	22	26	4	4.7
UT	2	3	14	41	17	20	5	4.5
MI	5	7	11	31	19	19	8	4.4
MN	1	3	16	34	25	14	6	4.5
WI	2	5	15	45	11	13	8	4.3

Questions in this final section help us more fully understand peoples' views and opinions.

13. Are you retired?

	No	Yes
Total	48	52
AZ	37	63
CO	70	30
OR	48	52
UT	62	38
MI	38	62
MN	44	56
WI	41	59

14. Does your community have a Community Wildfire Protection Plan?

	No	Yes	Don't know
Total	13	24	63
AZ	12	50	38
CO	16	33	51
OR	10	45	45
UT	12	13	75
MI	12	12	77
MN	16	16	67
WI	14	12	75

15. Do you belong to a homeowners association or property group that has (or is organizing) a fire-safe or similar program to create more open space around neighborhood homes?

	No	Yes	If so, is this program required?	If so, is this program voluntary?
Total	90	10	16	84
AZ	78	22	31	69
CO	87	13	11	89
OR	72	28	18	82
UT	97	3	0	100
MI	96	4	0	100
MN	97	3	0	100
WI	96	4	0	100

16. How concerned are you that a wildfire could change your quality of life?

	Not too concerned	Somewhat concerned	Very concerned	Extremely concerned
Total	34	29	23	14
AZ	32	33	18	17
CO	19	31	31	19
OR	21	35	23	21
UT	43	37	13	7
MI	34	34	22	9
MN	28	38	23	11
WI	34	41	17	7

17. In your own words, what is the biggest barrier or problem your community faces in reducing the risk of wildfires? (most common open-ended responses)

- The public's attitude (carelessness, apathy, resistance to forest management)
- Agency interactions with public (better information, more reliable/trustworthy communication)
- Lack of community preparedness (CO, MI)
- Environmental groups (too much influence, opposition to fuel reduction practices) (MN, AZ)
- Forest health (need more fuel reduction activities, more management) (MN, WI, OR)
- Urban expansion and population growth in the WUI (UT)
- Lack of resources (funding, personnel)
- Climate and environment (dry climate and drought)